

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|-----------------|--------------------|------------------|---------|------------------|
| S1 | 1 | "20050146591" | US-PGPUB; USPAT | OR | ON | 2007/03/21 18:03 |
| S2 | 1 | ("6766817").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/21 18:08 |
| S3 | 1 | ("6766918").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/21 18:09 |
| S4 | 1 | ("0555461").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/21 18:10 |
| S5 | 0 | "2002128578" | US-PGPUB; USPAT | OR | ON | 2007/03/21 18:12 |
| S6 | 1 | "20020128578" | US-PGPUB; USPAT | OR | ON | 2007/03/21 18:19 |
| S7 | 0 | "20026431695" | US-PGPUB; USPAT | OR | ON | 2007/03/21 18:22 |
| S8 | 0 | "200206431695" | US-PGPUB; USPAT | OR | ON | 2007/03/21 18:20 |
| S9 | 0 | "20026431695" | US-PGPUB; USPAT | OR | ON | 2007/03/21 18:21 |
| S10 | 0 | "19980099555" | US-PGPUB; USPAT | OR | ON | 2007/03/21 18:21 |
| S11 | 1 | ("6431695").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/21 18:28 |
| S12 | 1 | ("6514412").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/21 18:31 |
| S13 | 1 | ("6080243").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/21 18:35 |
| S14 | 1 | ("6290685").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/21 18:35 |
| S15 | 1 | ("5242646").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/22 09:02 |
| S16 | 1 | ("5671511").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/22 09:08 |
| S17 | 1 | ("6784289").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/22 09:10 |
| S18 | 1 | ("6876115").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/22 09:10 |
| S19 | 1 | ("6874777").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/22 09:13 |
| S20 | 1 | ("6557558").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/22 09:14 |
| S21 | 1 | ("7010583").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/22 09:30 |

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|-----|------|---|------------------------------|----|-----|------------------|
| S22 | 1 | ("6416642").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/22 09:34 |
| S23 | 1 | ("6094590").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/22 09:34 |
| S24 | 1 | "20060023020" | US-PGPUB; USPAT | OR | ON | 2007/03/22 09:37 |
| S25 | 367 | 347/22.ccls. | US-PGPUB; USPAT | OR | ON | 2007/03/22 09:38 |
| S26 | 1006 | 347/22 | US-PGPUB; USPAT | OR | ON | 2007/03/22 09:38 |
| S27 | 16 | S25 and (head adj (cleaning or purge or cleanup or washing or maintenance or service) adj (member or unit or part or portion or plate or section or piece or element)) | US-PGPUB; USPAT | OR | ON | 2007/03/22 14:59 |
| S28 | 10 | ("4306245" "4437568" "4727986" "4868700" "5500658" "5557306").PN. OR ("5864348"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 10:01 |
| S29 | 10 | ("4306245" "4437568" "4727986" "4868700" "5500658" "5557306").PN. OR ("5864348"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 10:17 |
| S30 | 4 | ("4340897" "5793390" "5864348" "6241337").PN. OR ("6869161").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 10:51 |
| S31 | 33 | ("4112435" "4123761" "4144537" "4306245").PN. OR ("4340897").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 10:54 |
| S32 | 33 | ("4112435" "4123761" "4144537" "4306245").PN. OR ("4340897").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 10:55 |
| S33 | 44 | ("4223322" "4340897").PN. OR ("4369456").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 11:30 |

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|-----|-----|--|------------------------------|----|----|------------------|
| S34 | 104 | ("20020160160" "20030089450" "20040017458" "20040121068" "3523818" "3658631" "3823947" "3827699" "4029368" "4138229" "4287264" "4289535" "4304700" "4369456" "4422119" "4446205" "4476177" "4497851" "4536218" "4644370" "4675705" "4737252" "4834739" "4873078" "4933015" "5011480" "5015608" "5108834" "5213588" "5227226" "5271990" "5316344" "5358402" "5378676" "5389129" "5416058" "5451559" "5472058" "5474966" "5525417" "5536328" "5536627" "5537140" "5547914" "5551960" "5563646" "5569347" "5573693" "5582953" "5587350" "5665462" "5665472" "5672428" "5688060" "5716717" "5716900" "5776280" "5865548" "5875719" "5891294" "5891476" "5926197" "5936816" "5965244" "5975988" "5981058" "5985076" "5995126" "5997227" "6008157" "6013409" "6024950" "6028614" "6031021" "6031556" "6045646" "6051097" "6051171" "6060234" "6071585" "6074100" "6078346" "6082912" "6083610" "6083872" "6084623" "6086700" "6086987" "6090747" "6102534" "6103389" "6113725" "6114088" "6116709" "6117572" "6118467" "6121356" "6124239" "6124944" "6127316" "6210490" "6284425" "6332953").PN. OR ("7182532"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 11:31 |
| S35 | 35 | ("3299464" "3821829" "4479136" "4499627" "4558482").PN. OR ("4933015"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 11:43 |

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|-----|----|--|------------------------------|----|-----|------------------|
| S36 | 44 | ("0874010" "1851811" "2666223" "2816312" "2886841" "3029457" "3069815" "3335221" "3477083" "3577507" "3706491" "3914817" "4010514" "4145231" "4328275" "4408241" "4781957" "4933015").PN. OR ("5153964"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 12:15 |
| S37 | 19 | ("3789452" "4104436" "4933015" "5075919" "5153964").PN. OR ("5227226"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 12:20 |
| S38 | 36 | ("2796367" "4357615" "4402599" "4611361" "4686132" "4891265" "4933015" "5026587" "5138390" "5153964").PN. OR ("5227844"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 12:23 |
| S39 | 21 | ("4357615" "4408241" "4515466" "4611361" "4628388" "4686132" "4933015" "5075919" "5153964" "5223329" "5227844" "5239316" "5300958" "5560980" "5564970" "5589865" "5754197" "5864348" "5949448" "6151044").PN. OR ("6673160"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 12:29 |
| S40 | 19 | ("3789452" "4104436" "4933015" "5075919" "5153964").PN. OR ("5227226"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 12:52 |
| S41 | 8 | ("4223322" "4369456" "4935753" "5239316" "5534898" "5606354" "5914734" "6644776").PN. OR ("6957881"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 14:03 |
| S42 | 30 | ("3346869").PN. OR ("4112435"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 14:24 |
| S43 | 1 | ("5555461").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/22 14:24 |
| S44 | 71 | ("4364065" "4638337" "4679059" "4746938" "4849774" "4853717" "4855764" "5065158" "5151715" "5182582").PN. OR ("5555461"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 14:43 |

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|-----|----|--|--------------------|----|-----|------------------|
| S45 | 1 | ("6871936").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/22 14:43 |
| S46 | 2 | S25 and ((head adj (cleaning or purge or cleanup or washing or maintenance or service) adj (device or mecanism or member or unit or part or portion or plate or section or piece or element))or(cleaning adj(sheet or media or paper)))and (pump or suction)and ((ink or fluid or liquid)adj recovery) | US-PGPUB; USPAT | OR | ON | 2007/03/22 15:16 |
| S47 | 4 | S26 and ((head adj (cleaning or purge or cleanup or washing or maintenance or service) adj (device or mecanism or member or unit or part or portion or plate or section or piece or element))or(cleaning adj(sheet or media or paper)))and (pump or suction)and ((ink or fluid or liquid)adj recovery) | US-PGPUB; USPAT | OR | ON | 2007/03/22 15:21 |
| S48 | 21 | "347".clas. and ((head adj (cleaning or purge or cleanup or washing or maintenance or service) adj (device or mecanism or member or unit or part or portion or plate or section or piece or element))or(cleaning adj(sheet or media or paper)))and (pump or suction)and ((ink or fluid or liquid)adj recovery) | US-PGPUB; USPAT | OR | ON | 2007/03/22 15:26 |
| S49 | 19 | "347".clas. and ((head adj (cleaning or purge or cleanup or washing or maintenance or service) adj (device or mecanism or member or unit or part or portion or plate or section or piece or element))or(cleaning adj(sheet or media or paper)))and (pump or suction)and (ink adj recovery) | US-PGPUB; USPAT | OR | ON | 2007/03/22 15:28 |
| S50 | 92 | "347".clas. and ((head adj (cleaning or purge or cleanup or washing or maintenance or service) adj (device or mecanism or member or unit or part or portion or plate or section or piece or element))or(cleaning adj(sheet or media or paper)))and (pump or suction)and (groove) | US-PGPUB; USPAT | OR | ON | 2007/03/22 15:28 |

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|-----|-----|---|--------------------|----|----|------------------|
| S51 | 30 | "347".cls. and ((head adj (cleaning or purge or cleanup or washing or maintenance or service) adj (device or mecanism or member or unit or part or portion or plate or section or piece or element))or(cleaning adj(sheet or media or paper)))and (pump or suction)and (groove)and (recover) | US-PGPUB; USPAT | OR | ON | 2007/03/22 16:24 |
| S52 | 10 | 347/33.ccls.and ((head adj (cleaning or purge or cleanup or washing or maintenance or service) adj (device or mecanism or member or unit or part or portion or plate or section or piece or element))or(cleaning adj(sheet or media or paper)))and (pump or suction)and (groove)and (recover) | US-PGPUB; USPAT | OR | ON | 2007/03/22 16:27 |
| S53 | 10 | 347/33 and ((head adj (cleaning or purge or cleanup or washing or maintenance or service) adj (device or mecanism or member or unit or part or portion or plate or section or piece or element))or(cleaning adj(sheet or media or paper)))and (pump or suction)and (groove)and (recover) | US-PGPUB; USPAT | OR | ON | 2007/03/22 16:28 |
| S54 | 25 | 347/33 and ((head adj (cleaning or purge or cleanup or washing or maintenance or service) adj (device or mecanism or member or unit or part or portion or plate or section or piece or element))or(cleaning adj(sheet or media or paper)))and (pump or suction)and (groove) | US-PGPUB; USPAT | OR | ON | 2007/03/22 16:33 |
| S55 | 723 | 347/33.ccls. | US-PGPUB; USPAT | OR | ON | 2007/03/22 16:33 |
| S56 | 263 | 347/33.ccls. and (groove) | US-PGPUB; USPAT | OR | ON | 2007/03/22 17:07 |
| S57 | 159 | 347/33.ccls. and (groove)and (pump or suction or suing) | US-PGPUB; USPAT | OR | ON | 2007/03/22 16:59 |
| S58 | 124 | 347/33.ccls. and (groove)and (pump or suction or suing)and (opening) | US-PGPUB; USPAT | OR | ON | 2007/03/22 16:40 |
| S59 | 3 | 347/33.ccls. and (groove)and (pump or suction or suing)and (opening)and (shutter) | US-PGPUB; USPAT | OR | ON | 2007/03/22 16:38 |
| S60 | 260 | S56 not (S58 and S59) | US-PGPUB; USPAT | OR | ON | 2007/03/22 17:13 |

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| S61 | 391 | "347".clas. and (parallel adj groove) | US-PGPUB; USPAT | OR | ON | 2007/03/22 17:15 |
| S62 | 162 | "347".clas. and (parallel adj groove)and (pump or suc\$4) | US-PGPUB; USPAT | OR | ON | 2007/03/22 17:21 |
| S63 | 424 | 347/28 | US-PGPUB; USPAT | OR | ON | 2007/03/22 17:22 |
| S64 | 688658 | 347/28and groove | US-PGPUB; USPAT | OR | ON | 2007/03/22 17:22 |
| S65 | 96 | 347/28 and groove | US-PGPUB; USPAT | OR | ON | 2007/03/22 17:22 |
| S66 | 96 | 347/28 and groove | US-PGPUB; USPAT | OR | ON | 2007/03/22 17:34 |
| S67 | 143 | 347/35 and groove | US-PGPUB; USPAT | OR | ON | 2007/03/22 17:34 |
| S68 | 38 | ("4207578" "4469026" "4651173" "5040000" "5124728" "5214442" "5349905").PN. OR ("5717446").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/22 17:48 |
| S69 | 1 | "20030202036" | US-PGPUB; USPAT | OR | ON | 2007/03/22 17:59 |
| S70 | 0 | "20010778524" | US-PGPUB; USPAT | OR | ON | 2007/03/22 18:37 |
| S71 | 0 | "2001778524" | US-PGPUB; USPAT | OR | ON | 2007/03/22 18:37 |
| S72 | 0 | "200100778524" | US-PGPUB; USPAT | OR | ON | 2007/03/22 18:37 |
| S73 | 0 | "200100778524" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/22 18:37 |
| S74 | 0 | "20010778524" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/22 18:53 |
| S75 | 1 | ("6080243").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/22 18:53 |
| S76 | 1 | ("5827246").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/22 18:54 |
| S77 | 1 | ("3455376").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/22 18:55 |

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|-----|----|---|--|----|-----|------------------|
| S78 | 1 | ("5606201").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/22 18:56 |
| S79 | 1 | ("3415502").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/22 18:57 |
| S80 | 0 | WO-02062568-\$.did. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/22 18:58 |
| S81 | 0 | WO-2002062568-\$.did. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/22 18:59 |
| S82 | 0 | WO-20020062568-\$.did. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/22 18:59 |
| S83 | 1 | EP-1358064-\$.did. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/22 19:00 |
| S84 | 2 | "20020146540" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/03/22 19:00 |
| S85 | 1 | ("4256610").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/26 17:42 |
| S86 | 1 | ("4007465").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/26 17:42 |
| S87 | 22 | ("3900162" "3974508").PN. OR ("4007465").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/26 17:58 |
| S88 | 1 | ("4050078").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/26 17:58 |

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|----------|----|---|------------------------------|----|-----|------------------|
| S89 | 1 | ("4112435").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/26 18:01 |
| S90 | 1 | ("4223322").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/26 18:01 |
| S91 | 33 | ("3039438" "3747120" "3945020" "3946398" "4144537").PN. OR ("4223322"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/26 18:02 |
| S92 | 1 | "4500894".PN. | USPAT; USOCR | OR | ON | 2007/03/26 18:17 |
| S93 | 1 | "4479136".PN. | USPAT; USOCR | OR | ON | 2007/03/26 18:17 |
| S94 | 1 | "4371881".PN. | USPAT; USOCR | OR | ON | 2007/03/26 18:17 |
| S95 | 1 | "4045802".PN. | USPAT; USOCR | OR | ON | 2007/03/26 18:17 |
| S96 | 1 | "4223322".PN. | USPAT; USOCR | OR | ON | 2007/03/26 18:18 |
| S97 | 1 | "4241357".PN. | USPAT; USOCR | OR | ON | 2007/03/26 18:18 |
| S98 | 1 | "4253103".PN. | USPAT; USOCR | OR | ON | 2007/03/26 18:19 |
| S99 | 1 | "4300145".PN. | USPAT; USOCR | OR | ON | 2007/03/26 18:19 |
| S10 0 | 1 | "4317124".PN. | USPAT; USOCR | OR | ON | 2007/03/26 18:23 |
| S10 1 | 1 | "4367479".PN. | USPAT; USOCR | OR | ON | 2007/03/26 18:24 |
| S10 2 | 1 | "4371881".PN. | USPAT; USOCR | OR | ON | 2007/03/26 18:24 |
| S10 3 | 1 | "4367479".PN. | USPAT; USOCR | OR | ON | 2007/03/26 18:25 |
| S10 4 | 15 | ("3839721" "4045802" "4177471" "4199767").PN. OR ("4300145").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/26 18:28 |
| S10 5 | 1 | ("4369456").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/26 18:28 |
| S10 6 | 38 | ("4207578" "4469026" "4651173" "5040000" "5124728" "5214442" "5349905").PN. OR ("5717446").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/26 18:34 |
| S10 7 | 1 | ("5555461").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/27 09:39 |

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|----------|----|--|------------------------------|----|-----|------------------|
| S10 8 | 71 | ("4364065" "4638337" "4679059" "4746938" "4849774" "4853717" "4855764" "5065158" "5151715" "5182582").PN. OR ("5555461"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/27 09:40 |
| S10 9 | 36 | ("0218431" "2687916" "4223324").PN. OR ("4364065"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/27 09:53 |
| S11 0 | 26 | ("3839721" "4223324" "4228442" "4296418" "4364065").PN. OR ("4432004"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/27 10:17 |
| S11 1 | 16 | ("4364065" "4571599" "4638337" "4679059" "4746938" "4849774" "4853717" "4855764" "5121130" "Re32572").PN. OR ("5329306"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/27 10:29 |
| S11 2 | 71 | ("4364065" "4638337" "4679059" "4746938" "4849774" "4853717" "4855764" "5065158" "5151715" "5182582").PN. OR ("5555461"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/27 10:57 |
| S11 3 | 53 | ("3373437" "3416153" "3705043" "3776642" "3846141" "3870528" "3878519" "3889269" "3903034" "4340897" "4346387" "4591870" "4600928" "4849769" "4951066" "4959673" "4970535" "5115250" "5148746" "5151715" "5202702" "5305015" "5350616" "5396271" "5412411" "5426458" "5431722" "5489927" "5500660" "5539435" "5555461" "5574485" "5583548" "5612722" "5614930" "5683187" "5706038" "5717445" "5725647" "5738716" "5745133" "5774140" "5790146" "6000792").PN. OR ("6241337").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/27 13:26 |
| S11 4 | 1 | "20060023020" | US-PGPUB; USPAT; USOCR | OR | ON | 2007/03/27 13:53 |
| S11 5 | 1 | ("6290685").PN. | US-PGPUB; USPAT | OR | OFF | 2007/03/27 13:54 |